t60_interva1 (TMUsVTYeqMNnnD-tUTG9K8xkUXpKBghvb3Nj)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v3\_roughs\_1 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $m2\_interva1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2\_interva1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k16\_interva1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15\_interva1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k14\_interva1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v3\_roughs\_1\ X0) \wedge (l1\_orders\_2\ X0))) \Rightarrow (\forall X1.(m2\_interva1\ X1\ X0) \Rightarrow (\forall X2.(m2\_interva1\ X2\ X0) \Rightarrow (k15\_interva1\ X0\ (k16\_interva1\ X0\ X1\ X2) = k4\_subset\_1\ (u1\_struct\_0\ X0)\ (k15\_interva1\ X0\ X1)\ (k15\_interva1\ X0\ X2)))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v3\_roughs\_1\ X0) \wedge (l1\_orders\_2\ X0))) \Rightarrow (\forall X1.(m2\_interva1\ X1\ X0) \Rightarrow (\forall X2.(m2\_interva1\ X2\ X0) \Rightarrow (k14\_interva1\ X0\ (k16\_interva1\ X0\ X1\ X2) = k4\_subset\_1\ (u1\_struct\_0\ X0)\ (k14\_interva1\ X0\ X1)\ (k14\_interva1\ X0\ X2)))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ X0))) \Rightarrow (k4\_subset\_1\ X0\ X1\ X1 = X1) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0) \wedge ((v3\_roughs\_1\ X0) \wedge (l1\_orders\_2\ X0))) \wedge ((m2\_interva1\ X1\ X0) \wedge (m2\_interva1\ X2\ X0))) \Rightarrow (m2\_interva1\ (k16\_interva1\ X0\ X1\ X2)\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0)\wedge((v3\_roughs\_1\ X0)\wedge (l1\_orders\_2\ X0)))\wedge(m2\_interva1\ X1\ X0))\Rightarrow(m1\_subset\_1\ (k15\_interva1\ X0\ X1)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0)\wedge((v3\_roughs\_1\ X0)\wedge (l1\_orders\_2\ X0)))\wedge(m2\_interva1\ X1\ X0))\Rightarrow(m1\_subset\_1\ (k14\_interva1\ X0\ X1)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \tag{6}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v3\_roughs\_1\ X0)\wedge(l1\_orders\_2\ X0)))\Rightarrow(\forall X1.(m2\_interva1\ X1\ X0)\Rightarrow(\forall X2.(m2\_interva1\ X2\ X0)\Rightarrow((r2\_interva1\ X0\ X1\ X2)\Leftrightarrow((k14\_interva1\ X0\ X1 = k14\_interva1\ X0\ X2)\wedge(k15\_interva1\ X0\ X1 = k15\_interva1\ X0\ X2))))) \tag{7}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v3\_roughs\_1\ X0)\wedge(l1\_orders\_2\ X0)))\Rightarrow(\forall X1.(m2\_interva1\ X1\ X0)\Rightarrow(r2\_interva1\ X0\ (k16\_interva1\ X0\ X1\ X1)\ X1))$$